IT Unit 3

Topic 1

# Organisations & Data Management

**Database design tools, p 36**

1. Explain why design is an important step in creating a solution.

**Naming conventions**

1. What is the importance of planning out naming conventions before you begin developing the solution? List examples of naming conventions for a database.

* So objects on a DBMS are easily identify by the user
* Table tbl
* Form frm
* Report rpt
* Query qry

1. What is to be avoided and how is readability assisted?

* Avoid spaces and underscore in object names, to aid readability, a mix of uppercase and lowercase characters is used in each name.

1. Describe the purpose of the following design tools:
   1. data dictionary

* to format the fields and their data type, format and size for a new database a common, this gives developer a precise explanation of how each field is setup in each table.
  1. data structure diagram
* Data structure diagram is use to indicate the relationship that exist between specific tables of a planned database so that the developer will know how the tables ought to be linked.
  1. entity-relationship diagram
* ERD is used by the database designer to establish the interrelationships between different data element.
  1. IPO chart
* Input process output
  1. query design and layout diagram
* Query are used to select only those records that meet the query criteria, they are also use to hold formalus

1. What is the purpose of test data? What should be considered when developing test data?

Give some examples of electronic validation that can be established using database software

* The test data should be chosen to test all aspects of the solution, including identification and handling of unreasonable, missing or incorrect data(validation), formulas and summary totals like counts and sums.